Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9231 Coax - RG-59/U Type

For more Information please call

1-800-Belden1



General Description:

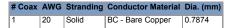
20 AWG solid .031" bare copper conductor, polyethylene insulation, tinned copper braid shields (95% coverage), PVC jacket.

1

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

Insulation

Insulation Material:



Outer Shield

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	95.000
2	Braid	TC - Tinned Copper	95.000

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVCNC - Polyvinyl Chloride Non-Contaminating

Overall Cable

Overall Nominal Diameter: 7.747 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
UL Temperature Rating:	60°C
Bulk Cable Weight:	105.662 Kg/Km
Max. Recommended Pulling Tension:	747.298 N
Min. Bend Radius/Minor Axis:	76.200 mm
Min. Bend Radius (Continuous Flexing):	152.400 mm

CMH

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC//III \ Specification:

CMH
CMH
Yes
Yes
Yes
Yes
10/01/2005
Yes
Yes
Yes
Yes
59/U

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lame Test		
UL Flame Test:	UL1685 UL Loading, VW-1	
Suitability		
Suitability - Indoor:	Yes	
Suitability - Outdoor:	Yes	
Suitability - Aerial:	Yes - When supported by a messenger wire	
Plenum/Non-Plenum		
Plenum (Y/N):	No	

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 75

Nom. Inductance:

Inductance (µH/m) 0.387158

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 68.901

Nominal Velocity of Propagation:

VP (%)

Nominal Delay:

Delay (ns/m) 5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 32.4819

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 3.6091

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
3.6	1.6405
10	2.6248
71.5	6.562
135	11.4835
270	14.1083
360	16.405
540	20.3422
720	23.6232
750	24.2794
1000	29.8571

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Operating Voltage - Non-UL:

Voltage 1700 V RMS

Other Electrical Characteristic 1:

Other Electrical Characteristic 2:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 \pm 1.5 Ohms

and termination. 75 17- 1.5 Of

Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 ohm fixed bridge and termination. 720A Series is available by special request.

Minimum Return Loss:

S	start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5		216	27
2	17	850	23

Sweep Test

Sweep Testing:

100% sweep tested. 5 Mhz to 850 MHz.

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Notes (Overall)

Notes: Non-Plenum versions comply with Telcordia Specification GR-139-CORE

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9231 0081000	1,000 FT	76.000 LB	GRAY	С	#20 PE DBL BRD PVC
9231 008500	500 FT	39.000 LB	GRAY		#20 PE DBL BRD PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-24-2012

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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